

Work Order ID 144485

Tuesday, April 19, 2016 11:06:53 AM

144485

Page 1

Item ID: D4287-1 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Uhmw U-Channel
Start Date: 4/22/2016 Start Qty: 36.00 ***36*** Cust Item ID:
Required Date: 4/26/2016 Req'd Qty: 36.00 ***36*** Customer:
Reference:

Approvals: Process Plan: MCS Date: APR 19 2016 Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D4287	A								
100		0.00							
100									
Purchasing	Memo	0.00							
Purchasing	Issue P/O: <u>32095</u>								
	Material: UHMW (white)								
	Supplier P#: McMaster-Carr 9928K53								
	Material release note required								
110	Receive & Inspect for Damage & Mat'l Certs	0.00							
110									
Packaging	Memo	0.72							
Packaging									
120	QC6- Inspect dimensions to drawing	0.00							
120									
QC	Memo	0.00							
Quality Control									

APR 20 2016

DAS
13
9-89

34

4/6/16 SP/16-04-25

DAS
16
9-89

16/04/27

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☒

Work Order: <u>144485</u> Part No. <u>D4287-1</u> NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																																
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ML5 MAY 02 2016
 Lm 16/04/29

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mis-labeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐					
		OTHER : ☐							

Picklist Print

Tuesday, April 19, 2016 11:06:57 AM

Page 1

Work Order ID: 144485

144485

Parent Item: D4287-1

D4287-1

Parent Item Name: Uhmw U-Channel

Start Date: 4/22/2016

Required Date: 4/26/2016

Start Qty: 36.00

Required Qty: 36.00

Comments: IPP Rev:A 10.11.15 new issue DD Verf:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
9928K53		Purchased	No			110	f	0.0000	1	36			
9928K53									**				
UHMW U-Channel													

40 F SP/6-04-25

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

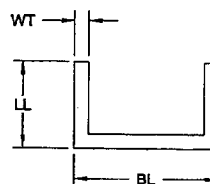
Work Order update only ☐

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OTHER : _____									

SPECIFICATION CONTROL DRAWING

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER NO.

144485 MJS
16-04-15



D4287-X UHMW U-CHANNEL

DART PART NUMBER	POSSIBLE SUPPLIER	SUPPLIER PART NUMBER	MATERIAL	PURCHASED LENGTH	BASE LENGTH (BL)	LEG LENGTH (LL)	WALL THICKNESS (WT)	WEIGHT (lbs)
D4287-1	McMASTER-CARR	9928K53	UHMW (WHITE)	96.0	1.05	0.75	0.250	2.11
D4287-3	McMASTER-CARR	8672K31	UHMW (WHITE)	96.0	1.25	0.75	0.125	1.29

RELEASED
R 2010-11-03

NOTES:

- 1) MATERIAL: PURCHASE PER TABLE OR UHMW BLACK TIVAR 1000 VIRGIN MATERIAL REF: DART SPEC. MUHMW
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: NONE
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: PER TABLE

A	NEW ISSUE	MB	10.10.26
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	10.10.26		

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

DRAWING NO.
DSC-D4287

REV. A
SHEET 1 OF 1

TITLE
UHMW U-CHANNEL

SCALE
NTS

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Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO32095**

Purchase Order Date 4/20/2016

PO Print Date 4/20/2016

Page Number 6 of 8

Order From :

VU-MCM001

MCMaster-CARR SUPPLY CO,
P.O. BOX 7690
CHICAGO, IL 60680-7690
US

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone

330 995 5500

Ship To Contact

Ship To Phone

Ship Via:

Purolator ground ppd

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 10

Currency

USD

FOB

FCA - (Free Carrier)

16	71475-45	5758T162 FIRE EXTINGUISHER	4/22/2016	4.00	\$7.36	\$29.44
			Yes	Each		
			4/22/2016			

Line Total: \$29.44

Deliver To: DAVID.D

17 9928K53

UHMW U-Channel

4/22/2016

Yes

4/22/2016

36.00

f

\$2.28

\$82.08

AS PER DWG D4287 REV. A
B144485

Line Total: \$82.08

18 8672K31

UHMW U-Channel

4/22/2016

Yes

4/22/2016

36.00

f

\$3.26

\$117.36

AS PER DWG D4287 REV. A
B144484

Line Total: \$117.36

Note:

4/20/2016



200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
PO32095
Order Placed By
Chantal Lavoie

McMaster-Carr Number
2227396-01

Page 1 of 2
04/20/2016

Line	Product	Ordered	Shipped
1	92373A143 18-8 Stainless Steel Slotted Spring Pin, 3/32" Diameter, 1/2" Length, Packs of 100, Chantal	1 Pack	1
2	97633A110 Black-Finish Steel External Retaining Ring, for 1/8" Shaft Diameter, Packs of 100, Chantal	1 Pack	1
3	9657K275 Steel Compression Spring, Zinc-Plated Music Wire, .500" L, .360" OD, .041" Wire, Packs of 12, Chantal	1 Pack	1
4	9001T17 Music Wire Ultra-Precision Compression Spring, .500" Length, .36" OD, .032" Wire Diameter, Packs of 3, Chantal	1 Pack	1
5	97525A473 18-8 Stainless Steel Blind Rivet with 18-8 Stainless Steel Mandrel, Domed, 5/32" Diameter, .376"-.5" Material Thickness, Packs of 50, Luc	1 Pack	1
6	97525A465 18-8 Stainless Steel Blind Rivet with 18-8 Stainless Steel Mandrel, Domed, 5/32" Diameter, .188"-.25" Material Thickness, Packs of 50, Luc	1 Pack	1
7	4661K62 Brass Float Valve with Copper Float, 1/2 NPT Male Inlet/Outlet, Luc	1 Each	1
8	5644K14 Retracting Air Hose, 5/16" ID, 3/8" OD, 210 PSI, Red, 100' Long, Luc	1 Each	1
9	4429K651 Low-Pressure Brass Threaded Pipe Fitting, 1/4 Pipe Size, 45 Degree Female X Male Elbow, Luc	1 Each	1
10	5294T49 Polyester/Cotton Blend Lab Jacket, Women's, Dark Blue, Size 14-16 (Large), Sylvie	2 Each	2
11	53355T71 Polyester/Cotton Blend Shop Coat, Dark Blue, Size 44	1 Each	1
12	2227A2 Cast Iron V-Blocks, 3-1/16" Maximum Workpiece Diameter, Eric L	1 Pair	1
13	60515A3 Polyurethane Replacement-Face Dead Blow Hammer, High-Visibility 2 lb, 1-7/8" Face Diameter, 11-3/4" L Overall, Eric L	1 Each	1
14	5758T46 Fire Equipment Sign, 4" X 18", Plastic, "Fire Extinguisher", 2-Way View, David.D	6 Each	6
15	5875T117 First-Aid Sign, 8" X 8", 2-Way View, Plastic, "Eye Wash", David.D	2 Each	2
16	5758T162 Fire Equipment Sign, 4" X 18", "Fire Extinguisher", Plastic, David.D	4 Each	4
17	9928K53 Impact-Resistant UHMW Polyethylene U-Channel, 1" Base X 3/4" Legs, 1/4" Thick, 8' Long, Sold In 8 FT Lengths	40 Feet	40
18	8672K31 UHMW Polyethylene Trim, Screw Mount, U-Shape, 1" Inside Width	36 Feet	36
19	30345T552 18-8 Stainless Steel Wire Rope Lanyard - Not for Lifting, Loop-to-Tab, 3/64" Rope Diameter, 12" LG, Nylon, Replaces 30345T24, Difference Is Now Load Rated	5 Each	5

SP16-04-28